

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY **G**OVERNOR

DAVID McCoy **SECRETARY**

July 8, 2005

U.S. Army Corp of Engineers Regulatory Field Office 6508 Falls of the Neuse Road Suite 120 Raleigh, NC 27615

ATTN:

Mr. Eric Alsmeyer

NCDOT Coordinator

Subject:

Notice of Nationwide 3 Use for the replacement of Bridge No. 174 over Buffalo Creek on SR 2320 (Riley Hill Road) in Wake County, Division 5, Federal Project No. BRZ-2320 (2), State Project No.

82407701, WBS Element 33138.1.1, T.I.P. No. B-3530.

Dear Sir:

Per our conversation on June 13, 2005, please find enclosed a courtesy copy of the permit drawings and wetland delineation forms. The North Carolina Department of Transportation (NCDOT) is in the process of replacing Bridge No. 174 over Buffalo Creek. The project involves replacing the 40-foot Bridge No. 174 on existing alignment with a new 100-foot bridge. The proposed bridge will consist of two 12-foot travel lanes with 8-foot shoulders, 4 feet of which will be paved. Traffic will be maintained by an off-site detour. The off-site detour will consist of SR 2320, SR 2321, and SR 1003. Buffalo Creek (DWQ Index # 27-57-16-(1)) is a the only jurisdictional stream in the project area.

This project was permitted under DWQ Buffer Certification # 041-720 on November 30, 2004 for buffer impacts only. On May 31, 2005 and June 14, 2005 site visits were made to determine presence or absence of wetlands located within the project area. It was determined that several small wetlands were located adjacent to the bridge within the right of way. The project was already under construction when wetlands were discovered. Partial areas within the wetlands had been filled during development of fill slopes. Therefore, NCDOT took the conservative approach in determining the wetland line by using the original toe of slope and moving outward to project boundary. A total of 0.10 acres of wetland will be impacted by permanent fill for road widening and placement of two 42-foot reinforced concrete pipes to retain the hydraulic connection between the wetlands and the ephemeral stream.

TELEPHONE: 919-715-1500 FAX: 919-715-1501

WEBSITE: WWW.NCDOT.ORG

The NCDOT anticipates that these activities will be authorized by Nationwide Permit No. 3, per our conversation on June 13, 2005. NCDOT will follow the conditions set by a Nationwide Permit No. 3 and by DWQ Water Quality Certification #3494.

NCDOT is providing this notice as a courtesy resource with the understanding that no written concurrence is required and no mitigation is necessary. If you have any questions or need additional information, please contact Deanna Riffey at (919) 715-1409. Thank you in advance for your help in this important matter.

Sincerely,

Gregory J. Thorpe, Ph.D.

Environmental Management Director, PDEA

Cc:

w/attachment

Mr. John Hennessy, NCDWQ (2 Copies)

Mr. Travis Wilson, NCWRC

Mr. Gary Jordan, USFWS

Mr. Michael Street, NCDMF

Dr. David Chang, P.E., Hydraulics

Mr. Mark Staley, Roadside Environmental

Mr. Greg Perfetti, P.E., Structure Design

Mr. Jon Nance, P.E., Division Engineer

Mr. Chris Murray, DEO

w/o attachment

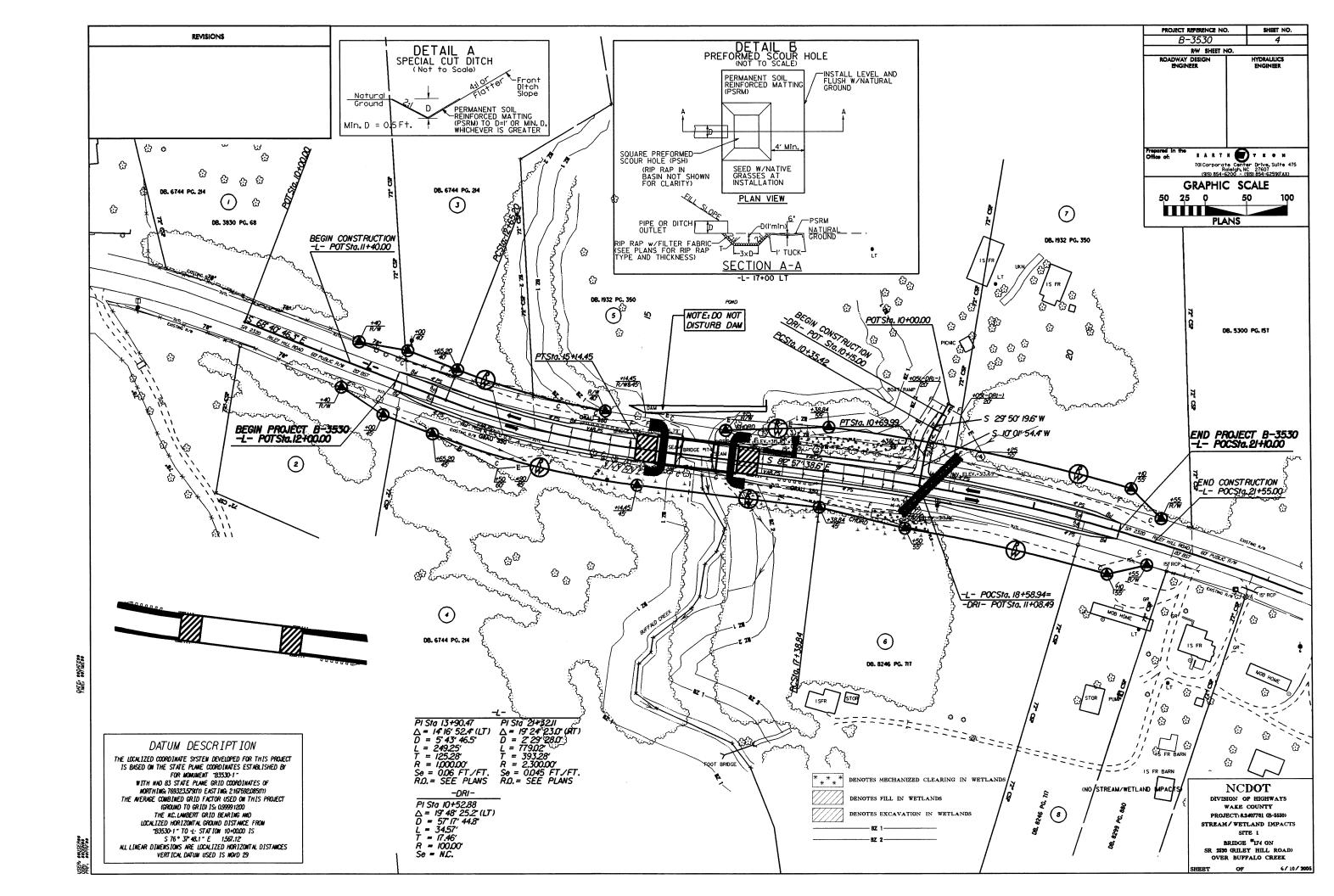
Mr. Jay Bennett, P.E., Roadway Design

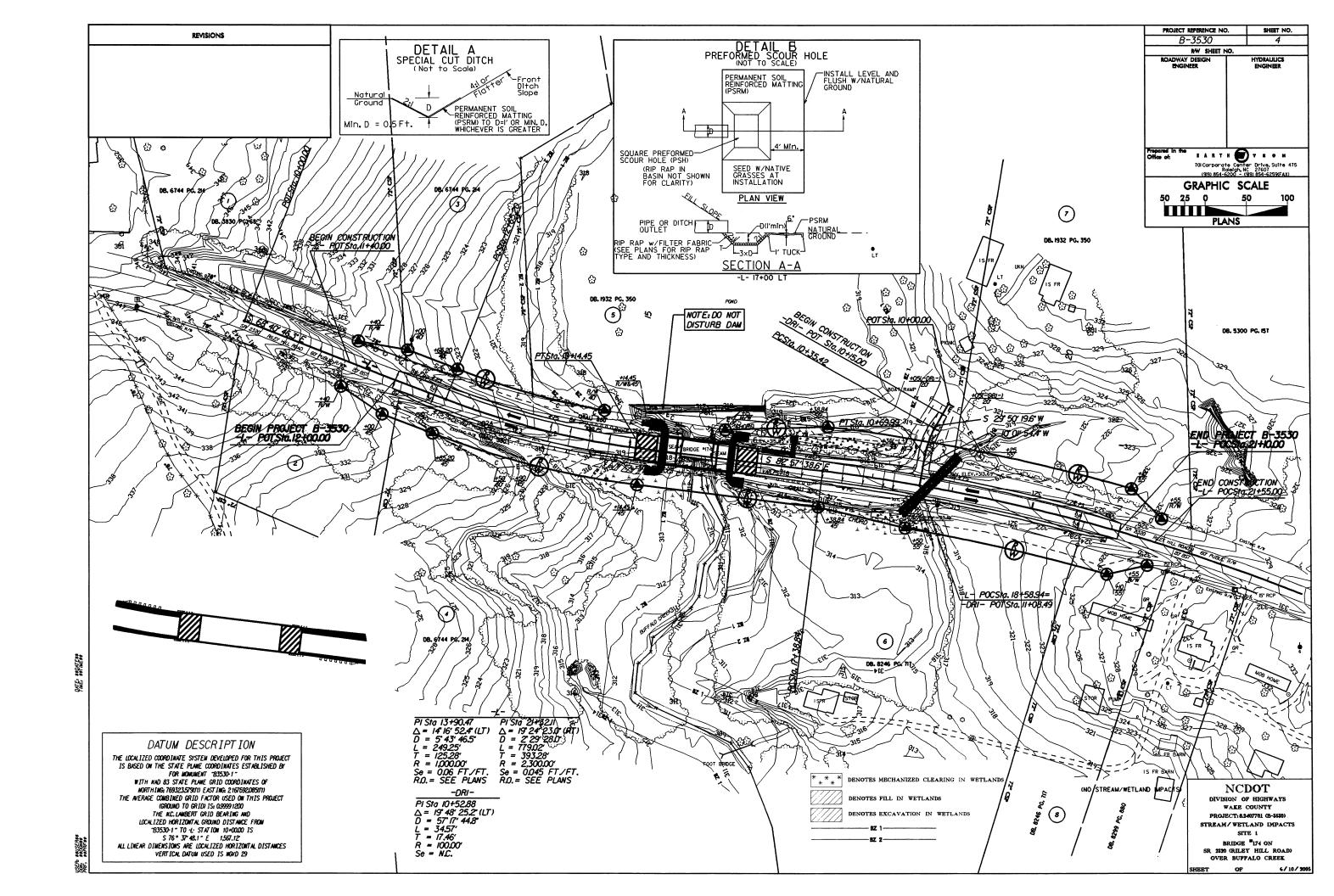
Mr. Omar Sultan, Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. David Franklin, USACE, Wilmington

Mr. John Conforti, PDEA





| | | | M | WETLAND PERMIT IMPACT SUMMARY | MIT IMPAC | T SUMMARY | | | | | |
|-------------|----------------------|---------------------------|---------------------|-------------------------------|---------------------------|--|-------------------------|----------------------|-----------------------|---------------------------------|-----------------------------|
| | | | | WETLAND | IMPACTS | | | SURFA | SURFACE WATER IMPACTS | /PACTS | |
| Site No. | Station (From/To) | Structure Size / Type | Fill In Wetlands | Temp. Fill In Wetlands | Excavation In Wetlands | Mechanized Clearing (Method III) | Fill In SW (Natural) | Fill In SW (Pond) | Temp. Fill In SW | Existing Channel Impacted | Natural Stream Design |
| - | -L- Sta 15+33 | 100' LONG BRIDGE | (ac) | (ac) | (ac) | (ac) | (ac) | (ac) | (ac) | E) O | (E) |
| | TO 16+33 | (36' WIDE) | | | | | | | | | |
| | | | | | | | | | | | |
| | 15+00-L- Rt | Roadway Fill | 0.017 | | | | | | | | |
| | | | | | | | | | | | |
| | 17+50 -L- Lt | Roadway Fill (Total Take) | 0.004 | | | 0.050 | | | | | |
| | | | | | | | | | | | |
| | 18+70-L- Rt | 2 @ 42" RCP | 900.0 | | 0.004 | 0.019 | | | | | |
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| TOTALS | · | | 0.027 | c | 0 004 | 690.0 | C | c | c | С | С |
| | | | 0.027 | , | 500.0 | 0.000 | > | , | , | | • |

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

REPLACE BRIDGE No 174
OVER BUFFALO CREEK
ON SR 2320
WAKE COUNTY
PROJECT 8.2407701 B-3530

OF SHEET

6/10/2005

Form Revised 3/22/01

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

| 1. Quercus Drinus T Facu 9. | Yes No Plot ID: Upland |
|--|--|
| Dominant Plant Species Stratum Indicator Do 1. Quercus Drinus T Facu 9. | |
| 1. Quercus Drinus T Facu 9. | |
| 3. Liriodendron tuliphora T Fac 11 4. Carpinus Cavoliniano T Fac 12 5. Direveus Stellata T Fac 13 6. SMITAX CD. V Fac 14 7. Microstegium Vimineum H Fact 15 8. 16 | Stratum Indicator Stratum Indicator Stratum Indicator Stratum Indicator |
| APPROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: | Vetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks) |

SOILS

| Texonomy (Subgroup): | Map Unit Name (Series and Phase):/ | | welly sand | brainage (| |
|--|---------------------------------------|---|-----------------|---|---------------------------------|
| Agenth Horizon Matrix Color Moute Colors Moute Colors Abundance/Contrast | Faxonomy (Subgroup): | Typic Ha | pludults | | |
| Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors TLAND DETERMINATION Addrophytic Vegetation Present? Addric Soils Present? Addric Soils Present? And (Circle) And | Depth inches) Horizon -(0 | (Munsell Moist) 10 Y R 3/3 10 Y R 5/6 | (Munsell Moist) | | Structure, etc. Lam Lam |
| Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Cherr (Explain in Remarks) FLAND DETERMINATION Grophytic Vegetation Present? Yes No (Circle) Strand Hydrology Present? Yes No Is this Sampling Point Within a Wetland? Is this Sampling Point Within a Wetland? Concretions High Organic Content in Surface Layer in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Cother (Explain in Remarks) Circle) Circle) Is this Sampling Point Within a Wetland? The strand Hydrology Present? The strand | | | | | |
| drophytic Vegetation Present? Setland Hydrology Present? Aric Soils Present? Yes No Yes No Is this Sampling Point Within a Wetland? Yes No Marks: | Aquic Mois Reducing 0 | sture Regime Conditions | <u> </u> | Organic Streaking in Sandy Listed on Local Hydric Soile Listed on National Hydric S | / Soils s List Goils List |
| rdrophytic Vegetation Present? Yes No (Circle) Hordrophytic Vegetation Present? Yes No (Circle) Yes No (Strick) Is this Sampling Point Within a Wetland? Yes No (Circle) | ımarks: | | | | |
| etland Hydrology Present? Yes No ydric Soils Present? Yes No ls this Sampling Point Within a Wetland? Yes No marks: | TLAND DETERMIN | IATION | | | |
| | etland Hydrology Prese | nt? Yes | € No | s this Sampling Point With | |
| | marks: | | | | |
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

| Merray | Date: 5/31/05 County: Wake State: NC | | | | |
|---|---|--|--|--|--|
| Investigator: Ond Mourray State: State: State: | | | | | |
| | | | | | |
| 9 | Stratum Indicator | | | | |
| Water Ma Drift Line Sediment Drainage Secondary Indicator Oxidized Water-Sta Local Soil | in Upper 12 Inches irks s Deposits Patterns in Wetlands rs (2 or more required): Root Channels in Upper 12 Inches ained Leaves | | | | |
| | Wetland Hydrology India 11. 12. 15. 16. ///// //// Saturated Water Ma Drift Line Secondary Indicators Oxidized Water-Status Local Soil FAC-Neur | | | | |

SOILS

| Map Unit Name (Series and Phase): | Wehatkee o | | Drainage 0 | | |
|--|---------------------------------|----------------------------------|---|---|--|
| Taxonomy (Subgroup): | Fluvenh | C Haplag | UPPS Confirm | Mapped Type? Yes No | |
| Profile Description: Depth (inches) Horizon | Matrix Color (Munsell Moist) | Mottle Colors (Munsell Moist) | Mottle Abundance/Contrast | Texture, Concretions, Structure, etc. SA SLT | |
| 1-10 | 10/15/1 | | | SALM | |
| 10-10+ | 101/19/1 | | | SA LM | |
| | | | | | |
| | | | | | |
| • | | | | | |
| Reducing | sture Regime | $\overline{\Sigma}$ | High Organic Content in Su Organic Streaking in Sandy Listed on Local Hydric Soila Listed on National Hydric S Other (Explain in Remarks) | Soils List | |
| | | | | | |
| ETLAND DETERMINATION | | | | | |
| Hydrophytic Vegetation I Wetland Hydrology Prese Hydric Soils Present? | | No (Circle) No No | ls this Sampling Point Withi | (Circle) in a Wetland? Yes No | |
| Remarks: | | • | | | |
| • | | | | | |
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